

Name of Development \_\_\_\_\_

Site Plan Review Number \_\_\_\_\_

**WATER & SEWER PLANNING & ENGINEERING SITE DEVELOPMENT PLAN REVIEW CHECKLIST**

The following checklist is a minimum guideline for water & sewer system extensions. It must be completed and signed by the Engineer proposing the development, and submitted with his/her plans to the Development Service Office. Please ensure that the Project Name and SPR # (if available) is provided at the top of all checklist pages and that the Engineer's Information (below) is completed in its entirety:

Name of Developer's Engineer: \_\_\_\_\_

Name of Developer's Engineering Firm: \_\_\_\_\_

Developer's Engineer's Signature: \_\_\_\_\_

The appropriate section(s) of this checklist must be completed by the Consultant and submitted with both the concept design and detailed design phase submittals. To complete the form, circle the appropriate response: "Y, N, or N/A", for each item to designate if performed and/or documented in the submittal. Under "note", include location within submittal package (sheet number with location or detail number, report page number and paragraph, etc.) for Y items. Alternately, include why N or N/A is acceptable, based upon the City of Savannah Standard Water and Sewer Specifications and Details or other sound engineering practice reflected in industry standards. Please contact the City of Savannah Water & Sewer Planning & Engineering (WSPE) Department at (912) 651-6573 with any questions.

**Master / General Development Plan Requirements**

<b>Concept Design</b>		<b>Circle one</b>	<b>Note</b>
CD-1	Is a site map provided to illustrate the layout of the project and show where proposed water and sewer systems will tie into the existing systems?	Y N N/A	
CD-2	Is a brief project description indicating: project type; project size (lots, rooms, seats, square footage, acreage, etc.); anticipated water usage; and requested city utility services, been provided?	Y N N/A	
CD-3	Has the availability of water and sewer service been confirmed? i.e. - has the WSPE Department been consulted in this regard and, if required, has a Water and Sewer Availability letter been issued?	Y N N/A	

**Detailed Design Submittal Requirements**

<b>General (Water and/or Sewer)</b>		<b>Circle One</b>	<b>Note</b>
G-1	Are Erosion and Sediment Control plans provided?	Y N N/A	
G-2	Are the most current FEMA flood zone delineation and FIRM Map with map number and effective date provided?	Y N N/A	
G-3	If water and/or sewer systems are proposed in areas to be paved, graded, or include stormwater control features, are the applicable plans for Paving, Grading, and Drainage provided?	Y N N/A	
G-4	Are all public utilities (portions of the system that will or have the potential to serve more than one customer) located within a public easement or right-of-way dedicated to the City?	Y N N/A	
G-5	Are recorded plats of the public easements for proposed water and/or sewer lines provided?	Y N N/A	

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G-6	Is certification included stating that the proposed water and/or sanitary sewer lines are not constructed on solid waste landfills and that they do not serve existing or proposed structures constructed on solid waste landfills?	Y N N/A	
G-7	Water or sewer facilities to be dedicated to the City for operation and maintenance require a Water & Sewer Agreement between the developer and the City. Is a Water & Sewer Agreement provided?	Y N N/A	
G-8	Is a completed Exhibit #7 "Equivalent Residential Use (ERU) Calculations" provided to determine water usage and water and/or sewer connection and surcharge fees?	Y N N/A	

Water		Circle one	Note
W-1	Is a completed Exhibit #2 "Proposed Water System Inventory Data Form" provided? ( <i>projects with service laterals only are excluded</i> )	Y N N/A	
W-2	Is the water meter selected and sized according to Exhibit #3 "Sizing and Selection of Water Meters"?	Y N N/A	
W-3	Is a completed Exhibit #4 "Proposed Water Distribution System Analysis Data Form" provided?	Y N N/A	
W-4	Is the fire hydrant test report provided?	Y N N/A	
W-5	Is a water system analysis, indicating flows and pressures, provided for: residential subdivisions with 10 or more lots; commercial development; or industrial development?	Y N N/A	
W-6	Do the results from the model (above) match Exhibit #4?	Y N N/A	
W-7	Is a completed Exhibit #5 "Fire System and Backflow Prevention Devices Owner/Client Declaration" provided?	Y N N/A	
W-8	For developments using irrigation water, does Exhibit #7 "Equivalent Residential Use (ERU) Calculations" include irrigation water usage and connection fees?	Y N N/A	
W-9	Are plans and specifications for an irrigation system provided?	Y N N/A	
W-10	Is a completed Exhibit #8 "Fire Protection Design Requirements" provided?	Y N N/A	
W-11	Are plans and specifications for a fire protection system provided?	Y N N/A	

Sanitary Sewer		Circle One	Note
S-1	Has a completed Exhibit #1 "Proposed Sanitary Sewer Collection System Analysis Data Form" been provided? ( <i>projects with service laterals only are excluded</i> )	Y N N/A	
S-2	Has a completed Exhibit #6 "Sanitary Sewer Extension Submittal City of Savannah" been provided? ( <i>projects with service laterals only are excluded</i> )	Y N N/A	
S-3	Grease traps are required for establishments serving food prepared on-site, e.g. - bars/restaurants, hotels, hospitals, school cafeterias, etc. For these developments, are grease trap hydraulic sizing calculations signed by a State of Georgia registered professional engineer provided?	Y N N/A	
S-4	For facilities that discharge wastewater generated from non-domestic use, is a completed "Industrial Discharge Survey" provided?	Y N N/A	

S-5	A restricted covenant is required for privately owned and maintained sanitary sewer lift stations. Is a restrictive covenant provided?	Y N N/A	
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Lift Stations		Circle One	Note
LS-1	Are calculations for average daily flow and peak flow pumping demands included? (reference Exhibit #7)	Y N N/A	
LS-2	Are the following calculations provided? Static Head; Friction Head; Total Dynamic Head; Net Positive Suction Head; Pump Cycle Times; Wet Well Volume; and Buoyancy for all Structures.	Y N N/A	
LS-3	Is the following force main information provided: Material; Diameter; Length (Linear Feet); Equivalent Length (includes fittings); and design "C" factor?	Y N N/A	
LS-4	Are the following curves provided and labeled with the proposed duty point(s)? Pump Pressure vs. Flow; Pump Efficiency vs. Flow; System Headloss vs. Flow.	Y N N/A	
LS-5	Is sufficient data provided to demonstrate that downstream gravity pipes, forcemains, lift stations, etc., have sufficient capacity to receive the lift station flow?	Y N N/A	
LS-6	Is a potable water supply with backflow preventer provided inside the lift station site?	Y N N/A	
LS-7	Does the lift station include a valve dry pit with a drain line back to the wetwell?	Y N N/A	
LS-8	Are provisions in place for back-up power or pumping?	Y N N/A	
LS-9	Is a bypass line (for pigging or temporary pumping) provided?	Y N N/A	
LS-10	Is a coating system for concrete structures specified?	Y N N/A	

General Drawing (Water and/or Sewer)		Circle One	Note
GD-1	<i>Acknowledge:</i> 24" x 36" as-built drawings are required by the W&S Private Development Projects Closeout Policy (GA State Plane coordinates, East Zone, NAD 83, NAVD 88, U.S. Survey Foot). Coordinates shall be provided on all structures, detention facilities, manholes, valves, fire hydrants, tees and bends.	Y N N/A	
GD-2	Is a bench mark with elevation provided on each sheet? (GA State Plane Coordinate System, East Zone, NAD 83, NAVD 88)	Y N N/A	
GD-3	Is a north arrow, graphic scale, & legend provided?	Y N N/A	
GD-4	Is an index of drawings provided?	Y N N/A	
GD-5	Are "No Dig" notes provided?	Y N N/A	
GD-6	Are property line bearings & distances provided?	Y N N/A	
GD-7	Are existing & proposed rights of way & easements shown?	Y N N/A	
GD-8	Are Property Identification Numbers (PIN) and names of property owners provided?	Y N N/A	
GD-9	Are adjacent structures shown?	Y N N/A	
GD-10	Are environmental features, including landfills, shown?	Y N N/A	
GD-11	Are topographic contours in 1 foot intervals provided?	Y N N/A	
GD-12	Is a State of Georgia registered professional stamp and signature included on plans?	Y N N/A	
GD-13	Are the locations of all existing utilities, above and below ground structures (pipe, manholes/catch basins with top & invert elevations, drive, walkway, fence, etc.) shown?	Y N N/A	

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GD-14	Are existing and proposed water and sanitary sewer lines shown, including size, material, flow direction (sewage), utility system owner, and other pertinent information shown?	Y	N	N/A	
GD-15	Are all water and sewer service connections shown? Are connection sizes, types, and materials indicated?	Y	N	N/A	
GD-16	Are all water and sewer lines shown in plan and profile? ( <i>service laterals are excluded</i> )	Y	N	N/A	
GD-17	Are minimum cover requirements and minimum vertical and horizontal clearances shown?	Y	N	N/A	
GD-18	Are the City of Savannah standard W&S details used where appropriate? Are the standard W&S note details (W-47, S-27) provided?	Y	N	N/A	
GD-19	Is a statement indicating whether or not wetland areas are located inside or with 200' of the project provided?	Y	N	N/A	

Water System Drawings		Circle One			Note
WD-1	Are backflow prevention devices for all water laterals (domestic, fire, irrigation) serving the development provided in accordance with City of Savannah specifications and best engineering practice?	Y	N	N/A	
WD-2	Are the locations, sizes, and types of backflow prevention devices provided?	Y	N	N/A	
WD-3	Are details for all backflow prevention devices provided?	Y	N	N/A	
WD-4	Are water meters for all laterals (domestic, irrigation) serving the development provided in accordance with City of Savannah specifications?	Y	N	N/A	
WD-5	Are the locations, sizes, and types of water meters provided?	Y	N	N/A	
WD-6	Are details for all water meters provided?	Y	N	N/A	
WD-7	Is a statement indicating whether or not an irrigation system is included in the project provided?	Y	N	N/A	
WD-8	Is a statement indicating whether or not a fire protection system is included in the project provided?	Y	N	N/A	
WD-9	Are the locations of the hydrants tested (flow) and monitored (pressure) for water pressure provided?	Y	N	N/A	
WD-10	Are the locations of existing/proposed hydrants used for fire protection provided?	Y	N	N/A	

Sanitary Sewer Drawings		Circle One			Note
SD-1	Are oil and grease trap locations and details provided in accordance with City of Savannah's Grease Interceptor Standards?	Y	N	N/A	
SD-2	Are sanitary sewer structures to receive coating clearly indicated?	Y	N	N/A	
SD-3	Is the force main discharge point clearly noted?	Y	N	N/A	
SD-4	Is a statement indicating whether or not the project will discharge industrial wastewater to the sanitary system provided?	Y	N	N/A	